

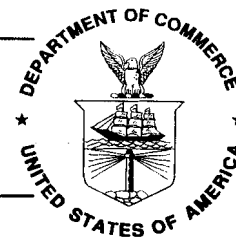
National Institute  
of Standards and Technology



National Voluntary  
Laboratory Accreditation Program

ISO/IEC 17025:1999  
ISO 9002:1994

## Scope of Accreditation



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### CALIBRATION LABORATORIES

NVLAP LAB CODE 200566-0

#### GLOBAL CALIBRATION LABORATORY - IONIZING RADIATION CALIBRATIONS

6045 Cochran Road  
Cleveland, OH 44139  
Ms. Clare Grehofsky  
Phone: 440-498-2577 Fax: 440-349-1927  
E-Mail: [clare.grehofsky@cardinal.com](mailto:clare.grehofsky@cardinal.com)  
URL: [www.globalcal.com](http://www.globalcal.com)

#### IONIZING RADIATION DOSIMETRY

**NVLAP Code:** 20/I01

Calibration of Reference Class Instruments

#### Calibration of Survey Instruments

<i>Calibration Category</i>	<i>Radiation Type or Beam Code</i>	<i>Nominal Intensity Range</i>	<i>Best Uncertainty<sup>note 1</sup></i>
Gamma	<sup>60</sup> Co	600 R/hr to 2500 R/hr	1.5 %
	<sup>60</sup> Co	10 R/hr to 1200 R/hr	1.5 %
	<sup>137</sup> Cs	0.2 mR/hr to 4 R/hr	1.5 %
	<sup>137</sup> Cs	5 mR/hr to 290 R/hr	1.5 %
	<sup>137</sup> Cs	0.04 mR/hr to 140 mR/hr	1.5 %
	<sup>137</sup> Cs	0.5 mR/hr to 1050 mR/hr	1.5 %
X-Ray	L100	0.5 R/hr to 50 R/hr	1.5 %
	M30	0.25 R/hr to 150 R/hr	1.5 %

September 30, 2005

Effective through

A handwritten signature in black ink, appearing to read "William R. Muhl".

For the National Institute of Standards and Technology

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M50	0.3 R/hr to 140 R/hr	1.5 %
M60	0.3 R/hr to 115 R/hr	1.5 %
M80	0.3 R/hr to 225 R/hr	1.5 %
M100	0.3 R/hr to 110 R/hr	1.5 %
M150	0.4 R/hr to 160 R/hr	1.5 %
M200	0.4 R/hr to 160 R/hr	1.5 %
M250	0.2 R/hr to 150 R/hr	1.5 %
H50	0.4 R/hr to 2 R/hr	1.5 %
H60	0.4 R/hr to 3 R/hr	1.5 %
H100	0.3 R/hr to 4 R/hr	1.5 %
H150	0.2 R/hr to 2 R/hr	1.5 %
H200	0.3 R/hr to 3 R/hr	1.5 %
H250	0.5 R/hr to 3 R/hr	1.5 %
Mo/Mo 28	20 R/hr to 300 R/min	1.5 %
Mo/Mo 35	20 R/hr to 300 R/min	1.5 %
Mo/Mo28x	20 R/hr to 300 R/min	1.5 %
Mo/Rh 28	20 R/hr to 300 R/min	1.5 %

September 30, 2005

Effective through

A handwritten signature in black ink, appearing to read "William R. M. M. M.", is positioned above a horizontal line.

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Mo/Rh 35	20 R/min to 300 R/min	1.5 %
Rh/Rh 25	20 R/min to 300 R/min	1.5 %
Rh/Rh 35	20 R/min to 300 R/min	1.5 %
Rh/Rh 40	20 R/min to 300 R/min	1.5 %
Rh/Rh/30x	20 R/min to 300 R/min	1.5 %

1. Represents an expanded uncertainty using a coverage factor,  $k=2$ , at an approximate level of confidence of 95%.

September 30, 2005

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